

*Amendment dated August 17, 2006*

*Reply to Office Action of May 17, 2006*

**IN THE SPECIFICATION**

**Please amend the paragraph beginning on page 1, line 18 as follows:**

In spite of these problems, many of recent commercial satellites are designed to have a lifetime in the order of 10-20 years in order to avoid an economical risk due to possible failure of launching and to reduce the cost. Even assumed that the leading-edge technologies (for example, devices, systems and protocols) can be loaded on the satellite before this satellite has been launched, it is impossible for these leading-edge technologies to follow progresses and changes of the communication technologies on the ground immediately from the launching moment. Consequently, there is an anxiety that these leading-edge technologies might become things of past.

**Please amend the paragraph beginning on page 4, line 5 as follows:**

The modulating/demodulating means of the second satellite may comprise a software modem adapted to determine and to execute at least modulating/demodulating method and/or error correcting methods in accordance with a program. It is possible thereby to change the communication method of the second satellite even after launching.

**Please amend the paragraph beginning on page 6, line 2 as follows:**

The modulating/demodulating means of the second satellite may comprise a software modem adapted to determine and to execute at least modulating/demodulating method and/or error correcting methods in accordance with a program so that the communication method of the second satellite can be changed even after launching.

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**Please amend the paragraph beginning on page 10, line 25 as follows:**

FIG. 2 illustrates the case in which the antenna satellite (2) receives two beam signals (300), (301) to be ~~branched/demodulated~~branched/demodulated, respectively. Each of the beams is of 8 channels. By programming the digital signal processor (31), it is possible to switch a transmission rate depending on particular situations of the line. Signal modulating technique may be selected from available various techniques such as Binary Phase Shift Keying.

**Please amend the paragraph beginning on page 11, line 20 as follows:**

Via a switching circuit (Gate SW) ~~(300)~~(306), the demodulated signals are time division multiplex (TDM) modulated by time division multiplex modulators (307), (308) for respective beams (309), (310) to form downlink signals. These downlink signals are transmitted by the wideband satellite communication (102) back to the antenna satellite (2) and transmitted from the transmitting antenna (27) to the ground station (1).